

Assessment-Based Treatment (TX) -- Percent Compliance -- Adult Respiratory Distress (ARD) with Bronchospasm -- Oxygen

DEFINITIONS

% compliance:	Percentage (%) of adult patients assessed by EMS personnel as having respiratory distress with bronchospasm who are given oxygen
assessment:	An evaluation of a patient's medical condition by EMS personnel
respiratory distress:	Any combination of signs and symptoms which demonstrate a patient is experiencing a serious or life threatening (non traumatic) medical condition involving the respiratory system.
bronchospasm:	Difficulty breathing such as occurs during asthma, croup, emphysema and other respiratory disorders
TX compliance:	Prehospital treatment to include modalities, procedures, dosages, and routes provided to the appropriate patient, time, and order, WITHIN the indicated range of adult ALS treatment guideline-protocol: as published in the most recent version of local EMS agency ALS treatment guidelines protocols
adult	Patients who have reached the age of 15 years or more
oxygen	Medical gas given for emergency treatment of respiratory distress

REPORTING

indicator item	% compliance oxygen rate per total cases (aggregate summary)
reporting formula	patients receiving oxygen divided by total patients assessed x 100 = %
data points:	
/// inclusion criteria:	patients age 15 or older assessed by EMS personnel
/// numerator:	total number of patients who receive oxygen
/// denominator:	total number of patients cases assessed by EMS personnel as having respiratory distress with bronchospasm
minimum points:	n = 30
time period:	monthly or annually (minimum of 12 consecutive months)
data source:	patient care documents (document by EMS personnel)

REPORTING EXAMPLE

reporting period:	Month of 7/99
numerator =	total number of adult patients receiving oxygen (N= 2290)
denominator =	total number of patient assessed - resp distress w wheezes (N=2296)
formula =	numerator/denominator x 100 = % (2290/2296) x 100 = 99 %
summary indicator reported item =	99% compliance - oxygen (ARD w bronchospasm)

<u>ANALYSIS:</u>	Process: Variation - Special Causation - Expected vs Actual Treatment Outcome: Benchmark Comparison - Best Practices
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BENCHMARK REFERENCES

1. 98% Compliance B UCLA; EMT-P deviations from protocols, Hoffman JR: Does paramedic base hospital contact result in beneficial deviations from protocols? West J Med 153: P 283-287, 1990
2. 97% Compliance B Univ of Michigan; EMT-P, QA Audit, Swor, RA: A paramedic peer review quality assurance audit, Pre Hospital & Disaster Medicine 6:3, 321-326, 1991
3. 98% Compliance B Univ of Michigan, EMT-P, computer assisted QA, Swor, RA: A computer assisted quality assurance audit in a multi-provider EMS system, Ann of Emerg Med 19:286-290, 1990
4. 97% compliance B Drew Medical, LA. Deviations from protocol, Wasserberger J, MD. Base station prehospital care: judgment errors and deviations from protocol. Ann of Emerg Med 16:8, 867-869, 1987.